

INTERNATIONAL SEARCH REPORT

International Application No
PCT/ZA2004/000131

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 E21D21/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 E21D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	CH 564 654 A (OTTA, LADISLAV) 31 July 1975 (1975-07-31) column 2, line 57 – column 3, line 3 -----	1-9
A	DE 37 04 969 A1 (DRESPA, GERD) 25 August 1988 (1988-08-25) column 7, line 62 – column 8, line 13 -----	1,11
A	US 4 655 644 A (LANE ET AL) 7 April 1987 (1987-04-07) column 6, lines 17-55 -----	1,11
A	DE 44 45 626 A1 (F. WILLICH BERG- UND BAUTECHNIK GMBH + CO, 44379 DORTMUND, DE) 27 June 1996 (1996-06-27) column 6, line 63 – column 7, line 18; figure 4 ----- -/-	1,11

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the International filing date
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- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the International filing date but later than the priority date claimed

T later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

& document member of the same patent family

Date of the actual completion of the International search

1 March 2005

Date of mailing of the International search report

09/03/2005

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INTERNATIONAL SEARCH REPORT

Int'l Application No
PCT/ZA2004/000 131

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4 312 604 A (FU ET AL) 26 January 1982 (1982-01-26) abstract -----	1,11

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

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Patent document cited in search report	Publication date	Patent family member(s)		Publication date
CH 564654	A 31-07-1975	CH	564654 A5	31-07-1975
DE 3704969	A1 25-08-1988	NONE		
US 4655644	A 07-04-1987	US AU CA US	4601614 A 3899185 A 1251067 A1 4655643 A	22-07-1986 05-09-1985 14-03-1989 07-04-1987
DE 4445626	A1 27-06-1996	NONE		
US 4312604	A 26-01-1982	NONE		